REG No. CBS/C1/CIVIL/6551/2015
TIN NO. 29521224545
GSTIN. 29AAECN7468E1Z3

NINETECH INFRA SOLUTIONS PVT LTD.

Email Id: info.ninetechinfra@gmail.com
Contact: 7019556969/9535584464

Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanhalli, BENGALURU – 560056, Karnataka

NABL Accredited Laboratory ISO/IEC 17025-2005

ISO 9001:2015 CN: QMS-18-03-52

Report No; - NISPL-83011900000000800

TEST REPORT ON COMPRESSION STRENGTH OF CONCRETE CUBES

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Name of the Road	Sai layout 2nd A Main road
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Sri K. Venkat Raju
Concrete Used for	Drain Raft
Date of Casting	26/12/2022
Date of Testing	02/01/2023
Date of Report	03/01/2023
Cross Sectional Area	22500 mm^2
Grade of Concrete	M20
Period of curing	7days
Sample ID	NISPL/2022-23/711

Sl.No	Test method	Size of Cube In mm	Failure load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength(N/mm^2)	Remarks
1	IS: 516-1959 (Reaffirmed 2018)	150x150x150	326.6	14.51	14.05	Strength requirement for 7 days is satisfied. I. e 13.5N/mm^2
2		150x150x150	310.01	13.77		
3		150x150x150	312.50	13.89		

Test Result Conclusion: The sample tested is satisfactory in accordance to IS: 516-1959

Note: -

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ಯಲಹಂಕ ವಿಭಾಗ, ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Quality Manager

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No. CBS/C1/CIVIL/6551/2015
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ISO 9001:2015 CN: QMS-18-03-52

Report No: -NISPL-83011900000000801

TEST REPORT ON COMPRESSION STRENGTH OF CONCRETE CUBES

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Name of the Road	Cross Road 1 (LHS)
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Sri K. Venkat Raju
Concrete Used for	Drain Raft
Date of Casting	27/12/2022
Date of Testing	03/01/2023
Date of Report	04/01/2023
Cross Sectional Area	22500 mm^2
Grade of Concrete	M20
Period of curing	7days
Sample ID	NISPL/2022-23/712

Sl.No.	Test method	Size of Cube In mm	Failure load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength(N/mm^2)	Remarks
1	IS: 516-1959 (Reaffirmed 2018)	150x150x150	329.1	14.63	14.58	Strength requirement for 7 days is satisfied. I .e 13.5N/mm^2
2		150x150x150	332.40	14.77		
3		150x150x150	322.82	14.35		

Test Result Conclusion: The sample tested is satisfactory in accordance to IS: 516-1959

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ISO 9001:2015 CN: QMS-18-03-52

Report No: NISPL-83011900000000803

TEST REPORT ON COMPRESSION STRENGTH OF CONCRETE CUBES

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Name of the Road	11TH Cross Road
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Sri K. Venkat Raju
Concrete Used for	Drain Raft
Date of Casting	29/12/2022
Date of Testing	05/01/2023
Date of Report	06/01/2023
Cross Sectional Area	22500 mm^2
Grade of Concrete	M20
Period of curing	7days
Sample ID	NISPL/2022-23/716

l.No.	Test method	Size of Cube In mm	Failure load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength(N/mm^2)	Remarks
1	IS: 516-1959 (Reaffirmed 2018)	150x150x150	320.91	14.26	14.28	Strength requirement for 7 days is satisfied. I. e 13.5N/mm^2
2		150x150x150	321.05	14.27		
3		150x150x150	321.99	14.31		

Test Result Conclusion: The sample tested is satisfactory in accordance to IS: 516-1959

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ಜ.ಜ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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ISO 9001:2015 CN: QMS-18-03-52

Report No: - NISPL-83011900000000806

TEST REPORT ON COMPRESSION STRENGTH OF CONCRETE CUBES

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Name of the Road	Sai layout 2nd A Main road
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Sri K. Venkat Raju
Concrete Used for	Drain Raft
Date of Casting	26/12/2022
Date of Testing	23/01/2023
Date of Report	24/01/2023
Cross Sectional Area	22500 mm^2
Grade of Concrete	M20
Period of curing	28 days
Sample ID	NISPL/2022-23/691

No.	Test method	Size of Cube In mm	Failure load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength(N/mm^2)	Remarks
1	IS: 516-1959 (Reaffirmed 2018)	150X150x150	475.5	21.14	21.54	Strength requirement for 28 days is satisfied. I. e 20.0 N/mm^2
2		150X150X150	490.2	21.78		
3		150X150X150	488.3	21.70		

Test Result Conclusion: The sample tested is satisfactory in accordance to IS: 516-1959

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ISO 9001:2015 CN: QMS-18-03-52

Report No: - NISPL-83011900000000809

TEST REPORT ON COMPRESSION STRENGTH OF CONCRETE CUBES

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Name of the Road	11TH Cross Road, Veerabagara Main Road.
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Sri K. Venkat Raju
Concrete Used for	Drain Raft
Date of Casting	29/12/2022
Date of Testing	26/01/2023
Date of Report	27/01/2023
Cross Sectional Area	22500 mm^2
Grade of Concrete	M20
Period of curing	28 days
Sample ID	NISPL/2022-23/694

l.No.	Test method	Size of Cube In mm	Failure load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength(N/mm^2)	Remarks
1	IS: 516-1959 (Reaffirmed 2018)	150X150x150	454.24	20.19	20.50	Strength requirement for 28 days is satisfied. I. e 20.0 N/mm^2
2		150X150X150	461.14	20.49		
3		150X150X150	468.64	20.83		

Test Result Conclusion: The sample tested is satisfactory in accordance to IS: 516-1959

Note: -

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ISO 9001:2015 CN: QMS-18-03-52

Report No: - NISPL-8301190000000811

TEST REPORT ON COMPRESSION STRENGTH OF CONCRETE CUBES

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Name of the Road	6TH Cross Road, Veerasagara Main Road
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Sri K. Venkat Raju
Concrete Used for	Drain Raft
Date of Casting	02/01/2023
Date of Testing	30/01/2023
Date of Report	31/01/2023
Cross Sectional Area	22500 mm^2
Grade of Concrete	M20
Period of curing	28 days
Sample ID	NISPL/2022-23/696

l No.	Test method	Size of Cube In mm	Failure load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength(N/mm^2)	Remarks
1	IS: 516-1959 (Reaffirmed 2018)	150X150x150	467.99	20.79	21.26	Strength requirement for 28 days is satisfied. I. e 20.0 N/mm^2
2		150X150X150	485.66	21.58		
3		150X150X150	481.56	21.40		

Test Result Conclusion: The sample tested is satisfactory in accordance to IS: 516-1959

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ISO 9001:2015 CN: QMS-18-03-52

Report No: - NISPL-83011900000000815

TEST REPORT ON COMPRESSION STRENGTH OF CONCRETE CUBES

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Name of the Road	11TH Cross Road, Veerabagur Main Road
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Sri K. Venkat Raju
Concrete Used for	Drain wall
Date of Casting	30/12/2022
Date of Testing	27/01/2023
Date of Report	28/01/2023
Cross Sectional Area	22500 mm^2
Grade of Concrete	M20
Period of curing	28 days
Sample ID	NISPL/2022-23/694

l.No.	Test method	Size of Cube In mm	Failure load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength(N/mm^2)	Remarks
1	IS: 516-1959 (Reaffirmed 2018)	150X150x150	452.24	20.10	20.47	Strength requirement for 28 days is satisfied. I. e 20.0 N/mm^2
2		150X150X150	460.14	20.45		
3		150X150X150	469.64	20.87		

Test Result Conclusion: The sample tested is satisfactory in accordance to IS: 516-1959

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ISO 9001:2015 CN: QMS-18-03-52

Report No: -NISPL-83011900000000820

TEST REPORT ON COMPRESSION STRENGTH OF CONCRETE CUBES

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Name of the Road	Cross Road 2 (RHS) Sai layout
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Shri k Venkat raju
Concrete Used for	Drain Wall
Date of Casting	29/12/2022
Date of Testing	05/01/2023
Date of Report	06/01/2023
Cross Sectional Area	22500 mm^2
Grade of Concrete	M20
Period of curing	7days
Sample ID	NISPL/2022-23/634

I.No.	Test method	Size of Cube In mm	Failure load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength(N/mm^2)	Remarks
1	IS: 516-1959 (Reaffirmed 2018)	150X150x150	320.5	14.24	14.15	Strength requirement for 7 days is satisfied. I. e 13.5N/mm^2
2		150X150X150	323.3	14.36		
3		150X150X150	311.7	13.85		

Test Result Conclusion: The sample tested is satisfactory in accordance to IS: 516-1959

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Report No: -NISPL-83011900000000821

TEST REPORT ON COMPRESSION STRENGTH OF CONCRETE CUBES

Name of the work	Improvements To Roads and Drains And Other Developmental Works At Akskshaya,Thirumalanagar,Muneshwara Layout,Sri Sai Layout, B Sector And Surrounding Areas in Ward No-03 And 04 Of Yelahanka Division Under Amruth Nagarothan Grants[PACKAGE NO-03]
Name of the Road	11TH Cross Road , Veerabagra main Road
Client	BRUHAT BANGALORE MAHANAGARA PALIKE
Contractor	Shri k Venkat raju
Concrete Used for	Drain Wall
Date of Casting	30/12/2022
Date of Testing	06/01/2023
Date of Report	07/01/2023
Cross Sectional Area	22500 mm^2
Grade of Concrete	M20
Period of curing	7days
Sample ID	NISPL/2022-23/635

Sl.No.	Test method	Size of Cube In mm	Failure load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength(N/mm^2)	Remarks
1	IS: 516-1959 (Reaffirmed 2018)	150X150x150	323.5	14.38	14.01	Strength requirement for 7 days is satisfied. I. e 13.5N/mm^2
2		150X150X150	310.2	13.79		
3		150X150X150	312.2	13.88		

Test Result Conclusion: The sample tested is satisfactory in accordance to IS: 516-1959

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Authorized signatory
Quality Manager

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NABL Accredited Laboratory ISO/IEC 17025-2005
ISO 9001:2015 CN: QMS-18-03-52

Name of Work: Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)

Name of Road: Akshaya nagara main road

Client : BRUHAT BANGALORE MAHANAGARA PALIKE(Yelahanka Division)

Consultant : M/s Ninetech Infra Solutions Pvt. Ltd.

Contractor : Sri K. Venkat Raju

FIELD DENSITY TEST ON SOIL/GSB/WMM
TEST METHOD: IS: 2720 (PART-28)

	Date of Testing:	12-01-2023
Description of layer : **GSB**	Lab Density (g/c.c):	2.1
OMC % : 5.5	Density of Sand Ys:	1.4

OBSERVATIONS

Description	1	2	3
Offset from edge in mtr	2.1	2	2.1
Wt of Soil/GSB/WMM in hole W gms	4300	4280	4172
Wt of cylinder filled with sand before pouring W_1 g	16500	16500	16500
Wt of cylinder filled with sand after pouring W_2 g	12865	12885	12970
Wt of sand in conical portion Wc in gms	980	980	980
Sand in hole Wh=W1-W2-Wc in gms	2655.00	2635.00	2550
Volume of pit V=W_h/Ys g/cc	1896.43	1882.14	1821.43
Bulk (Wet) density of Y_b=W/V g/cc	2.27	2.27	2.29
Rapid moisture meter reading=m	8.6	8	9
Field moisture content FMC in %	9.55	8.88	9.99
Field dry density in g/cc=(Yb/1+(FMC/100))	2.070	2.089	2.08
Degree of compaction in %	98.56	99.45	99.17

Remarks:

Authorized Representative (For Contractor)

Authorized Representative (For PMC)

Authorized Representative (For Client)

NINETECH INFRA SOLUTIONS PVT LTD BANGALORE 560-056

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-560064

REG No. CBS/C1/CIVIL/6551/2015
TIN No. 29521224545
GSTIN 29AAECN7468E1Z3

NINETECH INFRA SOLUTIONS PVT LTD.

Email Id: info.ninetechinfra@gmail.com
Contact: 7019556969/9535584464

Corp. Off: #14, 3rd Floor, Hithaa complex, 80 feet Ring Road (Kengeri), Nagadevanhalli, BENGALURU – 560056, Karnataka

NABL Accredited Laboratory ISO/IEC 17025-2005
ISO 9001:2015 CN: QMS-18-03-52

Name of Work: Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and (PACKAGE No-03)

Name of Road: Akshaya nagara main road

Client : BRUHAT BANGALORE MAHANAGARA PALIKE(Yelahanka Division)

Consultant : M/s Ninetech Infra Solutions Pvt. Ltd.

Contractor : Sri K. Venkat Raju

FIELD DENSITY TEST ON SOIL/**GSB**/WMM
TEST METHOD: IS: 2720 (PART-28)

	Date of Testing:	12-01-2023
Description of layer : **GSB**	Lab Density (g/c.c):	2.1
OMC % : 5.5	Density of Sand Ys:	1.4

OBSERVATIONS

Description	1	2	3
Offset from edge in mtr	2.1	2	2.1
Wt of Soil/GSB/WMM in hole W gms	4301	4276	4175
Wt of cylinder filled with sand before pouring W_1 g	16500	16500	16500
Wt of cylinder filled with sand after pouring W_2 g	12865	12885	12970
Wt of sand in conical portion Wc in gms	980	980	980
Sand in hole Wh=W1-W2-Wc in gms	2655.00	2635.00	2550
Volume of pit V=W_h/Ys g/cc	1896.43	1882.14	1821.43
Bulk (Wet) density of Y_b=W/V g/cc	2.27	2.27	2.29
Rapid moisture meter reading=m	8.6	8	9
Field moisture content FMC in %	9.55	8.88	9.99
Field dry density in g/cc=(Yb/1+(FMC/100))	2.070	2.087	2.08
Degree of compaction in %	98.59	99.36	99.24

Remarks:

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative (For Client)

NINETECH INFRA SOLUTIONS PVT LTD Bangalore

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NABL Accredited Laboratory ISO/IEC 17025-2005

ISO 9001:2015 CN: QMS-18-03-52

Name of Work: Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)

Name of Road: Akshaya nagara main road

Client : BRUHAT BANGALORE MAHANAGARA PALIKE(Yelahanka Division)

Consultant : M/s Ninetech Infra Solutions Pvt. Ltd.

Contractor : Sri K. Venkat Raju

FIELD DENSITY TEST ON SOIL/GSB/WMM
TEST METHOD: IS: 2720 (PART-28)

	Date of Testing:	12-01-2023
Description of layer : **GSB**	Lab Density (g/c.c):	2.1
OMC % : 5.5	Density of Sand Ys:	1.4

OBSERVATIONS

Description	1	2	3
Offset from edge in mtr	2.1	2	2.1
Wt of Soil/GSB/WMM in hole W gms	4290	4269	4165
Wt of cylinder filled with sand before pouring W_1 g	16500	16500	16500
Wt of cylinder filled with sand after pouring W_2 g	12865	12885	12970
Wt of sand in conical portion Wc in gms	980	980	980
Sand in hole Wh=W1-W2-Wc in gms	2655.00	2635.00	2550
Volume of pit V=W_b/Ys g/cc	1896.43	1882.14	1821.43
Bulk (Wet) density of Y_b=W/V g/cc	2.26	2.27	2.29
Rapid moisture meter reading=m	8.6	8	9
Field moisture content FMC in %	9.55	8.88	9.99
Field dry density in g/cc=(Yb/1+(FMC/100))	2.065	2.083	2.08
Degree of compaction in %	98.33	99.20	99.00

Remarks:

Authorized Representative (For Contractor) | Authorized Representative (For PMC) | Authorized Representative (For Client)

NINETECH INFRA SOLUTIONS PVT LTD Bangalore 560056

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ISO 9001:2015 CN: QMS-18-03-52

Bruhat Bengaluru Mahanagara Palike		
Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)	
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore	
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.	
Contractor	Sri K. Venkat Raju	
GRADATION TEST ON GSB		
Name of Road	8th A Main Road	
Description of Material	GSB Grade-V	Date of Sampling: 04/01/2023
Source of Material	Nelmangala	Date of Testing: 04/01/2023
Sample No	2	Total Weight:10000.00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained	Cum. Wt.Retained	% Retained	% Passing	MORT&H specification	Remarks
75	0	0	0	100	100	
53	420	420	4.2	95.80	80-100	
26.5	1850	2270	22.7	77.30	55-90	
9.5	2750	5020	50.2	49.80	35-65	
4.75	1850	6870	68.7	31.30	25-50	
2.36	1999	8869	88.69	11.31	10-20	
0.85	757	9626	96.26	3.74	2-10	
0.425	374	10000	100	0.00	0-5	
	10000					

Remarks:Test Results are is in confirmation with MORT&H.

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative (For Client)

NINETECH INFRA SOLUTIONS PVT. LTD. Bangalore

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ISO 9001:2015 CN: QMS-18-03-52

Bruhat Bengaluru Mahanagara Palike		
Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)	
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore	
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.	
Contractor	Sri K. Venkat Raju	
GRADATION TEST ON GSB		
Name of Road	2nd Cross Road, Akshaya Nagar	
Description of Material	GSB Grade-V	Date of Sampling: 07/01/2023
Source of Material	Nelmangala	Date of Testing: 07/01/2023
Sample No	4	Total Weight 10000.00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained	Cum. Wt.Retained	% Retained	% Passing	MORT&H specification	Remarks
75	0	0	0	100	100	
53	410	410	4.1	95.90	80-100	
26.5	1820	2230	22.3	77.70	55-90	
9.5	2750	4980	49.8	50.20	35-65	
4.75	1890	6870	68.7	31.30	25-50	
2.36	2010	8880	88.8	11.20	10-20	
0.85	751	9631	96.31	3.69	2-10	
0.425	369	10000	100	0.00	0-5	
	10000					

Remarks: Test Results are is in confirmation with MORT&H.

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative (For Client)

NINETECH INFRA SOLUTIONS PVT LTD BENGALURU

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು-106

EG No. CBS/C1/CIVIL/6551/2015
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Client	Bruhat Bengaluru Mahanagara Palike, Bangalore	
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.	
Contractor	Sri K. Venkat Raju	
GRADATION TEST ON BC		
Name of Road	4th Main Road (Attur layout)	
Description of Material	GRADATION TEST ON BC	Date of Sampling: 02/01/2023
Source of Material	Nelmangala	Date of Testing: 02/01/2023
Sample No	3	Total Weight:1000 00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained	Cum. Wt.Retained	% Retained	% Passing	MORT&H specification	Remarks
19	0	0	0	100	100	
13.2	78.8	78.8	7.88	92.12	90-100	
9.5	99.3	178.1	17.81	82.19	70-88	
4.75	178.3	356.4	35.64	64.36	53-71	
2.36	159.3	515.7	51.57	48.43	42-58	
1.18	139.4	655.1	65.51	34.49	34-48	
0.6	90.6	745.7	74.57	25.43	26-38	
0.3	88.3	834	83.4	16.6	18-28	
0.15	87.9	921.9	92.19	7.81	12-20	
0.075	78.1	1000	100	0	4-10	
	1000					

Remarks: Test Results are in confirmation with MORT&H.

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative (For Client)

NINETECH INFRA SOLUTIONS PVT LTD

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬೃ.ಬೆಂ.ಮ.ಪಾ.ಸಂ.-ಬೆಂಗಳೂರು-೫೬೦೦೫೬

G No. CBS/CI/CIVIL/6551/2015
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NABL Accredited Laboratory ISO/IEC 17025-2005

ISO 9001:2015 CN: QMS-18-03-52

Bruhat Bengaluru Mahanagara Palike

Name of Work: Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)

Client : BRUHAT BANGALORE MAHANAGARA PALIKE(Yelahanka divison).

Consultant : M/s Ninetech Infra Solutions Pvt. Ltd.

Contractor : Sri .k. Venkat raju

FIELD DENSITY TEST ON **WMM**
TEST METHOD: IS: 2720 (PART-28)

Description of layer : WMM	Date of Testing:	09-01-2023
	Lab Density (g/c.c):	2.15
OMC % : 6.2	Density of Sand Ys:(g/c.c)	1.4

OBSERVATIONS

Description	1	2	3
Location of Test in mtr			
Offset from edge in mtr	1.5	2.2	3.0
Wt of Soil/GSB/WMM in hole W gms	4215	4230	4210
Wt of cylinder filled with sand before pouring W_1 g	16500	16500	16500
Wt of cylinder filled with sand after pouring W_2 g	12913.5	12915.3	12920.2
Wt of sand in conical portion Wc in gms	980	980	980
Sand in hole Wh=W1-W2-Wc in gms	2606.50	2604.70	2599.80
Volume of pit V=W_h/Ys g/cc	1861.79	1860.50	1857.00
Bulk (Wet) density of Y_b=W/V g/cc	2.26	2.27	2.27
Rapid moisture meter reading=m	6.30	6.50	6.20
Field moisture content FMC in %	6.99	7.22	6.88
Field dry density in g/cc=(Yb/1+(FMC/100))	2.116	2.121	2.121
Degree of compaction in %	98.42	98.63	98.66

Remarks:

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative (For Client)

NINETECH INFRA SOLUTIONS PVT. LTD. Bangalore 560056

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬ.ಬೃ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-560056.

G No. CBS/C1/CIVIL/6551/2015
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NABL Accredited Laboratory ISO/IEC 17025-2005

ISO 9001:2015 CN: QMS-18-03-52

Bruhat Bengaluru Mahanagara Palike

Name of Work: Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)

Client : BRUHAT BANGALORE MAHANAGARA PALIKE(Yelahanka divison).

Consultant : M/s Ninetech Infra Solutions Pvt. Ltd.

Contractor : Sri .k. Venkat raju

FIELD DENSITY TEST ON **WMM**
TEST METHOD: IS: 2720 (PART-28)

Description of layer : WMM	Date of Testing:	11-01-2023
	Lab Density (g/c.c):	2.15
OMC % : 6.2	Density of Sand Ys:(g/c.c)	1.4

OBSERVATIONS

Description	1	2	3
Location of Test in mtr			
Offset from edge in mtr	1.5	2.2	3.0
Wt of Soil/GSB/WMM in hole W gms	4218	4221	4203
Wt of cylinder filled with sand before pouring W_1 g	16500	16500	16500
Wt of cylinder filled with sand after pouring W_2 g	12913.5	12915.3	12920.2
Wt of sand in conical portion Wc in gms	980	980	980
Sand in hole Wh=W1-W2-Wc in gms	2606.50	2604.70	2599.80
Volume of pit $V=W_b/Ys$ g/cc	1861.79	1860.50	1857.00
Bulk (Wet) density of $Y_b=W/V$ g/cc	2.27	2.27	2.26
Rapid moisture meter reading=m	6.30	6.50	6.20
Field moisture content FMC in %	6.99	7.22	6.88
Field dry density in g/cc=(Yb/1+(FMC/100))	2.117	2.116	2.118
Degree of compaction in %	98.49	98.42	98.49

Remarks:

Authorized Representative (For Contractor)

Authorized Representative (For PMC)

NINETECH INFRA SOLUTIONS PVT LTD Bangalore 560056

Authorized Representative (For Client)

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಬ.ಮ.ಪಾ. ಬೆಂಗಳೂರು-106

REG No. CBS/C1/CIVIL/6551/2015
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NABL Accredited Laboratory ISO/IEC 17025-2005

ISO 9001:2015 CN: QMS-18-03-52

Bruhat Bengaluru Mahanagara Palike		
Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)	
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore	
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.	
Contractor	Shri k venkat raju	
GRADATION TEST ON WMM		
Name of Road	5th main road (Attut layout)	
Description of Material	WMM	Date of Sampling: 06/01/2023
Source of Material	Nelmangala.	Date of Testing: 06/01/2023
Sample No	5	Total Weight.10000.00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained	Cum. Wt.Retained	% Retained	% Passing	MORT&H specification	Remarks
53	0	0	0	100	100	
45	299	299	30.2020202	69.7979798	95-100	
22.4	2238	2537	25.37	44.4279798	60-80	
11.2	2445	4982	49.82	50.18	40-60	
4.75	1999	6981	69.81	30.19	25-40	
2.36	880	7861	78.61	21.39	15-30	
0.6	1149	9010	90.1	9.9	8-22	
0.075	990	10000	100	0	0-5	
	10000					

Remarks:Test Results are in confirmation with MORT&H.

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative (For Client)

NINETECH INFRA SOLUTIONS PVT.LTD. Bangalore 560056

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Bruhat Bengaluru Mahanagara Palike

Name of Work:	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03).			
Client	Bruhat Bengaluru Mahanagara Palike, Bangalore			
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.			
Contractor	Shri K. Venkat raju			
DBM Density TEST				
TEST METHOD: IRC SP-11				
			Date of Testing:	16/01/2023
Road Name	8th a Main Road			
Description of layer:	DBM		Lab Density (g/c.c):	2.33
Source of material:	Nelmangala		Density of Sand Ys(g/c.c):	1.4

OBSERVATIONS

Sl No.	Description	1	2	3	Remarks
1	Offset from edge in mtr	1.7	1.9	2.1	
2	Wt. of DBM in hole W gms	542.3	559.3	571.9	
3	Wt. of cylinder filled with sand before pouring W_1 g	6500	6500	6500	
4	Wt. of cylinder filled with sand after pouring W_2 g	5805	5799.5	5792.5	
5	Wt. of sand in conical portion Wc in gms	357	357	357	
6	Sand in hole $W_h=W_1-W_2-Wc$ in gms	338	343.5	350.5	
7	Volume of pit $V=W_h/Ys$ g/cc	241.43	245.36	250.36	
8	Density of $Y_b=W/V$ g/cc	2.25	2.28	2.28	
9	Degree of compaction in %	96.40	97.83	98.04	

Remarks: Test Results are in confirmation with MORT&H.

Authorized Representative (For Contractor)

Authorized Representative (For QMC)

Authorized Representative (For Client)

Lab: No157A, Doddabasthi main road, Bhuvaneshwari Nagar, Bangalore-560056.

No. CBS/C1/CIVIL/6551/2015
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Bruhat Bengaluru Mahanagara Palike		
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Client	Bruhat Bengaluru Mahanagara Palike, Bangalore	
Consultant	M/s Ninetech Infra Solutions Pvt. Ltd.	
Contractor	Shri K Venkat raju	
GRADATION TEST ON DBM		
Name of Road	8th Main Road	
Description of Material	DBM	Date of Sampling 11/01/2023
Source of Material	Nelmangala	Date of Testing 11/01/2023
Sample No	1	Total Weight 1000.00gms

OBSERVATIONS

IS Sieve Size in mm	Wt.Retained	Cum. Wt.Retained	% Retained	% Passing	MORT&H specification	Remarks
37.5	0	0	0	100	100	
26.5	74.5	74.5	7.45	92.55	90-100	
19	125.8	200.3	20.03	79.97	71-95	
13.2	186.1	386.4	38.64	61.36	56-80	
4.75	190.2	576.6	57.66	42.34	38-54	
2.36	104.9	681.5	68.15	31.85	28-42	
0.3	175.6	857.1	85.71	14.29	7-21	
0.075	142.9	1000	100	0	2-8	
	1000					

Remarks: Test Results are in confirmation with MORT&H.

Authorized Representative (For Contractor)	Authorized Representative (For PMC)	Authorized Representative (For Client)

NINETECH INFRA SOLUTIONS PVT. LTD. Bangalore

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